WR-28 Waveguide Standard Gain Horn Antenna Operating From 26.5 GHz to 40 GHz With a Nominal 15 dBi Gain With UG-599/U Square Cover Flange

**Gain Horns Technical Data Sheet**

**PE9850-15**

**Features**
- Rectangular Waveguide Interface
- 26.5 GHz to 40 GHz
- 15 dBi Nominal Gain
- UG-599/U Square Cover Flange

**Applications**
- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

**Description**
Pasternack's PE9850-15 WR-28 waveguide standard gain horn antenna operating from 26.5 GHz to 40 GHz with a nominal 15 dBi gain is part of our full line of RF components available for same-day shipping. This Pasternack pyramidal horn antenna has a lightweight anodized aluminum body and a precision tolerance UG-599/U square cover flange. The PE9850-15 WR-28 waveguide standard gain horn antenna offers low gain variation across its operating frequency range and 32.1 degrees of half power beam width.

Waveguide standard gain horn antennas are used in a wide variety of applications due to their high power handling capability, low loss, high directivity, and near constant electrical performance across a broad bandwidth. Pasternack's WR-28 standard gain horns are available in 10, 15 and 20 dB models with pyramidal shape and rectangular waveguide input.

**Configuration**
- Design: WR-28 Standard Gain Horn
- Pattern: Directional
- Polarization: Linear

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>26.5</td>
<td>40</td>
<td></td>
<td>GHz</td>
</tr>
<tr>
<td>Nominal Gain</td>
<td>15</td>
<td></td>
<td></td>
<td>dBi</td>
</tr>
<tr>
<td>Horizontal Half Power Beam Width</td>
<td>31.3</td>
<td></td>
<td></td>
<td>Degrees</td>
</tr>
<tr>
<td>Vertical Half Power Beam Width</td>
<td>32.1</td>
<td></td>
<td></td>
<td>Degrees</td>
</tr>
</tbody>
</table>

Electrical Specification Notes:
Half power beam width is calculated by computer simulation.

**Mechanical Specifications**

<table>
<thead>
<tr>
<th>Size</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>1.87 in [47.5 mm]</td>
</tr>
<tr>
<td>Width</td>
<td>0.835 in [21.21 mm]</td>
</tr>
<tr>
<td>Height</td>
<td>0.75 in [19.05 mm]</td>
</tr>
<tr>
<td>Weight</td>
<td>0.0308 lbs [13.97 g]</td>
</tr>
</tbody>
</table>

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: WR-28 Waveguide Standard Gain Horn Antenna Operating From 26.5 GHz to 40 GHz With a Nominal 15 dBi Gain With UG-599/U Square Cover Flange PE9850-15
WR-28 Waveguide Standard Gain Horn Antenna
Operating From 26.5 GHz to 40 GHz With a Nominal
15 dBi Gain With UG-599/U Square Cover Flange

Gain Horns Technical Data Sheet

**Waveguide Interface**
- Waveguide Size: WR-28
- Flange Type: Square Cover
- Flange Designation: UG-599/U
- Body Material and Plating: Anodized Aluminum, Paint

**Environmental Specifications**

**Compliance Certifications** (see product page for current document)

**Plotted and Other Data**

**Notes:**

**Typical Performance Data**

![Graph showing dBi vs. GHz]

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: WR-28 Waveguide Standard Gain Horn Antenna Operating From 26.5 GHz to 40 GHz With a Nominal 15 dBi Gain With UG-599/U Square Cover Flange PE9850-15
WR-28 Waveguide Standard Gain Horn Antenna Operating From 26.5 GHz to 40 GHz With a Nominal 15 dBi Gain With UG-599/U Square Cover Flange

Gain Horns Technical Data Sheet

WR-28 Waveguide Standard Gain Horn Antenna Operating From 26.5 GHz to 40 GHz With a Nominal 15 dBi Gain With UG-599/U Square Cover Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: WR-28 Waveguide Standard Gain Horn Antenna Operating From 26.5 GHz to 40 GHz With a Nominal 15 dBi Gain With UG-599/U Square Cover Flange PE9850-15


The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.
Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

**STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES**

- STANDARD TOLERANCES
  - ±0.02
  - ±0.01
  - ±0.005

**NOTES:**
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

PE9850-15 CAD Drawing
WR-28 Waveguide Standard Gain Horn Antenna Operating From 26.5 GHz to 40 GHz With a Nominal 15 dBi Gain With UG-599/U Square Cover Flange

© 2018 Pasternack Enterprises All Rights Reserved